

10/534,003

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FILE 'HOME' ENTERED AT 16:05:01 ON 14 NOV 2005

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=> set plurals on perm  
SET COMMAND COMPLETED
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=> set abbr on pemrm
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prompt (=>).
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=> set abbr on perm
SET COMMAND COMPLETED
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FULL ESTIMATED COST	0.21	0.21

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FILE 'JAPIO' ENTERED AT 16:05:41 ON 14 NOV 2005
COPYRIGHT (C) 2005 Japanese Patent Office (JPO) - JAPIO
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FILE 'CAPLUS' ENTERED AT 16:05:41 ON 14 NOV 2005
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COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)
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FILE 'INPADOC' ENTERED AT 16:05:41 ON 14 NOV 2005
COPYRIGHT (C) 2005 European Patent Office, Vienna (EPO)
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```
=> s jp 119968/73/app
'APP' IS NOT A VALID FIELD CODE
'APP' IS NOT A VALID FIELD CODE
'APP' IS NOT A VALID FIELD CODE
L1 0 JP 119968/73/APP
```

```
=> s jp 73-119968/app
L2 3 JP 73-119968/APPS
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=> d 12 1-3 all
```

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L2 ANSWER 1 OF 3 JAPIO (C) 2005 EPO on STN
AN 1975-071800 JAPIO
PI JP 50071800 A 19750613 Showa
AI JP 1973-119968 (JP48119968 Showa) 19731026
PRAI JP 1973-11996819731026
SO INPADOC
IC ICM C08G061-08
```

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L2 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1975:564871 CAPLUS
DN 83:164871
ED Entered STN: 12 May 1984
TI Polymerizing norbornene derivatives
IN Uejima, Takashi; Tanaka, Yasuji; Kurosawa, Shigeru; Kobayashi, Shoichi
PA Showa Denko K. K., Japan
SO Jpn. Kokai Tokkyo Koho, 13 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC C08G
CC 35-4 (Synthetic High Polymers)
FAN.CNT 1
```

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 50071800	A2	19750613	JP 1973-119968	19731026 <--
PRAI JP 1973-119968	A	19731026	<--	

CLASS  
PATENT NO. CLASS PATENT FAMILY CLASSIFICATION CODES

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JP 50071800 IC C08G  
AB Norbornene derivs. containing  $\geq 1$  ether group were polymerized in the presence of an organoaluminum compound, a W and(or) Mo compound, and optionally water, a peroxide, epoxide, halide, acetal, ortho acid ester or alc. Thus, 100 volume parts 5-methoxybicyclo[2.2.1]hept-2-ene (I), 200 volume parts PhMe, and 1 mole% (on I) WC16 [13283-01-7] were mixed with 4 mole% (on I) Et<sub>2</sub>AlCl [96-10-6] with cooling and the mixture was kept 24 hr at 15°, treated with 0.5% bis(2-hydroxy-3-tert-butyl-5-methylphenyl)methane, and poured into 2000 volume parts MeOH containing 5 volume% concentrated HCl to give 23.4% pale yellow polymer [56663-05-9] of intrinsic viscosity 0.37 (0.1 g/dl PhMe at 30°).  
ST norbornene deriv polymn catalyst; aluminum compd polymn catalyst; molybdenum compd polymn catalyst; tungsten compd polymn catalyst  
IT Polymerization catalysts (ethylaluminum chloride-tungsten chloride, for methoxybicycloheptene)  
IT 13283-01-7  
RL: CAT (Catalyst use); USES (Uses)  
(catalysts, containing ethylaluminum chloride, for polymerization of methoxybicycloheptene)  
IT 96-10-6, uses and miscellaneous  
RL: CAT (Catalyst use); USES (Uses)  
(catalysts, containing tungsten chloride, for polymerization of methoxybicycloheptene)  
IT 56663-05-9P  
RL: IMF (Industrial manufacture); PREP (Preparation)  
(manufacture of, catalysts for)

L2 ANSWER 3 OF 3 INPADOC COPYRIGHT 2005 EPO on STN

LEVEL 1

AN 4597749 INPADOC  
DT Patent  
PIT JPA2 DOCUMENT LAID OPEN TO PUBLIC INSPECTION  
PI JP 50071800 A2 19750613  
AI JP 1973-119968 A 19731026  
PRAI JP 1973-119968 A 19731026  
OSCA 083:164871  
OSDW 75-63129W  
ICM ( ) C08G061-08

=> s jp 73-123329/apps  
L3 7 JP 73-123329/APPS

=> d 13 1-7 all

L3 ANSWER 1 OF 7 JAPIO (C) 2005 EPO on STN  
AN 1975-075300 JAPIO  
PI JP 50075300 A 19750620 Showa  
AI JP 1973-123329 (JP48123329 Showa) 19731105  
PRAI JP 1973-12332919731105  
SO INPADOC  
IC ICM C08G061-08

L3 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN  
AN 1975:532320 CAPLUS  
DN 83:132320  
ED Entered STN: 12 May 1984  
TI Polymerization of norbornene derivatives  
IN Kurosawa, Shigeru; Ueshima, Takashi; Kobayashi, Shoichi  
PA Showa Denko K. K., Japan

SO Ger. Offen., 68 pp.

CODEN: GWXXBX

DT Patent

LA German

IC C08F

CC 35-4 (Synthetic High Polymers)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2452461	A1	19750507	DE 1974-2452461	19741105 <--
	DE 2452461	B2	19790621		
	DE 2452461	C3	19800221		
	JP 50075300	A2	19750620	JP 1973-123329	19731105 <--
	US 3959234	A	19760525	US 1974-520096	19741101 <--
	GB 1482993	A	19770817	GB 1974-47624	19741104 <--
	FR 2249913	A1	19750530	FR 1974-36699	19741105 <--
	FR 2249913	B1	19800425		
PRAI	JP 1973-123329	A	19731105	<--	

CLASS

	PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
	DE 2452461	IC	C08F
	US 3959234	NCL	526/092.000; 260/DIG.043; 526/108.000; 526/109.000; 526/110.000; 526/114.000; 526/138.000; 526/142.000; 526/143.000; 526/153.000; 526/159.000; 526/169.000; 526/208.000; 526/209.000; 526/213.000; 526/230.000; 526/259.000; 526/280.000; 526/281.000; 526/291.000; 526/308.000

GI For diagram(s), see printed CA Issue.

AB Polymers with good strength and adhesion and high m.p. are prepared by ring-opening polymerization of norbornene derivative imides in the presence of

Al alkyls and W and/or Mo compds. Thus, stirring 100 parts N-methyl-exo-5-norbornene-2,3-dicarboximide, 300 parts ClCH<sub>2</sub>CH<sub>2</sub>Cl, 1 mole % WC16 [13283-01-7], and 6 mole % Et<sub>2</sub>AlCl [96-10-6] 24 hr at 50° gives 52.4% polymer (I) [56420-88-3], reduced viscosity (DMF, 30°) 0.38 dl/g. Similarly-prepared I has Izod impact strength 18.45 kg-cm/cm, tensile strength 506 kg/cm<sup>2</sup>, and elongation 5.9%.

ST norbornenedicarboximide polymn catalyst; imide norbornene polymn; aluminum alkyl catalyst; tungsten hexachloride catalyst; ring cleavage polymn norbornenedicarboximide

IT Polymerization catalysts  
(aluminumalkyl-transition metal compds., for norborneneimides)

IT Ring cleavage  
(in polymerization, of norborneneimides)

IT Polymerization  
(ring cleavage and, of norborneneimides)

IT 64-17-5, uses and miscellaneous 71-36-3, uses and miscellaneous  
75-56-9, uses and miscellaneous 78-95-5 94-36-0, uses and  
miscellaneous 105-57-7 107-07-3, uses and miscellaneous 110-05-4  
122-51-0 507-20-0 7732-18-5

RL: CAT (Catalyst use); USES (Uses)  
(catalysts, containing aluminum alkyls and transition metal compds., for polymerization of norborneneimides)

IT 4503-97-3 10241-05-1 13283-01-7 17524-05-9

RL: CAT (Catalyst use); USES (Uses)  
(catalysts, containing aluminum alkyls, for polymerization of norborneneimides)

IT 96-10-6, uses and miscellaneous 97-93-8, uses and miscellaneous  
563-43-9, uses and miscellaneous 871-27-2 12075-68-2 51310-92-0

RL: CAT (Catalyst use); USES (Uses)  
(catalysts, containing transition metal compds., for polymerization of norborneneimides)

IT 31533-50-3P 56385-41-2P 56385-43-4P 56420-89-4P 56420-91-8P  
56420-93-0P 56420-94-1P 56552-69-3P  
RL: IMF (Industrial manufacture); PREP (Preparation)  
(manufacture of, catalyst for)

IT 56384-97-5P 56384-99-7P 56385-01-4P 56385-03-6P 56385-45-6P  
56385-47-8P 56385-49-0P 56385-51-4P 56385-53-6P 56385-55-8P  
56385-57-0P 56385-59-2P 56385-61-6P 56385-63-8P 56385-65-0P  
56385-67-2P 56385-69-4P 56385-71-8P 56420-88-3P 56452-56-3P  
56452-57-4P 56452-58-5P  
RL: IMF (Industrial manufacture); PREP (Preparation)  
(manufacture of, catalysts for)

IT 5763-44-0D, Cyclopenta[c]pyrrole-1,3(2H,3aH)-dione, tetrahydro-, polymers  
RL: USES (Uses)  
(manuf.of, catalysts for)

L3 ANSWER 3 OF 7 INPADOC COPYRIGHT 2005 EPO on STN

LEVEL 1

AN 25127044 INPADOC  
TI METHOD OF POLYMERIZING IMIDE TYPE NORBORNENE DERIVATIVES.  
PA SHOWA DENKO KK  
PAS SHOWA DENKO KK  
DT Patent  
PIT GBA PATENT SPECIFICATION  
PI GB 1482993 A 19770817  
AI GB 1974-47624 A 19741104  
PRAI JP 1973-123329 A 19731105  
ICM ( ) C08G061-08  
NCL C3P

L3 ANSWER 4 OF 7 INPADOC COPYRIGHT 2005 EPO on STN

LEVEL 3

AN 10980386 INPADOC  
TI VERFAHREN ZUR RINGOEFFNENDEN POLYMERISATION VON IMIDTYP-  
NORBORNENDERIVATEN.  
IN KUROSAWA, SHIGERU; UESHIMA, TAKASHI; KOBAYASHI, SHOICHI  
INS KUROSAWA SHIGERU; UESHIMA TAKASHI; KOBAYASHI SHOICHI  
INA JP; JP; JP  
PA SHOWA DENKO K.K., TOKIO  
PAS SHOWA DENKO KK  
DT Patent  
PIT DEC3 PATENT SPECIFICATION (THIRD PUBL.)  
PI DE 2452461 C3 19800221  
AI DE 1974-2452461 A 19741105  
PRAI JP 1973-123329 A 19731105  
ICM (3) C08G061-08  
ICS (3) C08F032-08

L3 ANSWER 5 OF 7 INPADOC COPYRIGHT 2005 EPO on STN

LEVEL 1

AN 9832007 INPADOC  
TI METHOD OF POLYMERIZING CARBONIMIDE NORBORNENE DERIVATIVES.  
IN KUROSAWA, SHIGERU; UESHIMA, TAKASHI; KOBAYASHI, SHOICHI  
INS KUROSAWA SHIGERU; UESHIMA TAKASHI; KOBAYASHI SHOICHI  
PA SHOWA DENKO KABUSHIKI KAISHA  
PAS SHOWA DENKO KK  
DT Patent  
PIT USA UNITED STATES PATENT  
PI US 3959234 A 19760525  
AI US 1974-520096 A 19741101  
PRAI JP 1973-123329 A 19731105

ICM ( ) C08G069-00  
NCL 260 78UA

L3 ANSWER 6 OF 7 INPADOC COPYRIGHT 2005 EPO on STN

LEVEL 2

AN 5008260 INPADOC  
PA SHOWA DENKO KK  
PAS SHOWA DENKO KK  
PAA JP  
DT Patent  
PIT FRB1 PATENT OF INVENTION (SECOND PUBLICATION)  
PI FR 2249913 B1 19800425  
AI FR 1974-36699 A 19741105  
PRAI JP 1973-123329 A 19731105  
ICM ( ) C08G061-08

L3 ANSWER 7 OF 7 INPADOC COPYRIGHT 2005 EPO on STN

LEVEL 1

AN 4653749 INPADOC  
DT Patent  
PIT JPA2 DOCUMENT LAID OPEN TO PUBLIC INSPECTION  
PI JP 50075300 A2 19750620  
AI JP 1973-123329 A 19731105  
PRAI JP 1973-123329 A 19731105  
ICM ( ) C08G061-08